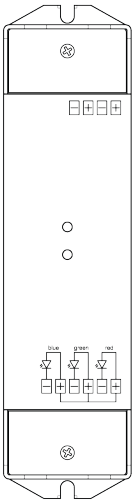
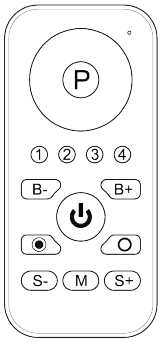




LC1006
LC2810

User's manual

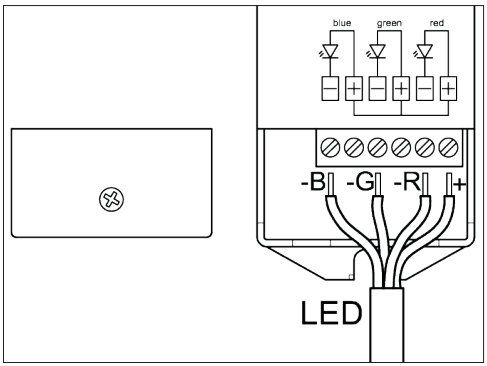
RF controller for RGB strips and LED lamps.
Radiocontroller to control the switch on, switch off, colour and brightness of light

WARNINGS

The security of the device is guaranteed only with the proper use of the following instructions, therefore it is necessary to keep them with care.
Suitable only for indoor installation (IP20).
Disconnect the unit from the power supply before attempting any operation in contact or inside the unit, and when not in use.
Due to the high technological level of this unit, any service maintenance should be performed by specialised operators. Please contact your Arena Luci dealer for any operation.
Do not attempt to dismantle and modify the device.
Allowed to be mounted directly on inflammable surfaces.
Always ensure that the structure to which you are attaching the device is secure and is able to support the weight of each unit.
The installation of LED modules (including power supplies) should be done according to current technical rules and regulations.
The installation should be performed only by a qualified operator.
Before connecting the device, make sure that the output voltage of the power supply matches the voltage allowed by the device.

INSTALLATION

Remove the cover from the output connectors of the RGB controller and connect the LED devices to the proper terminals.
The terminal block allows you to connect the three lines red, green, blue of lighting devices, respect the anode-cathode polarity of LEDs. Connect the positive power line of LED device to the "+" terminal, connect the negative power line of the single colour to the "-" terminal.

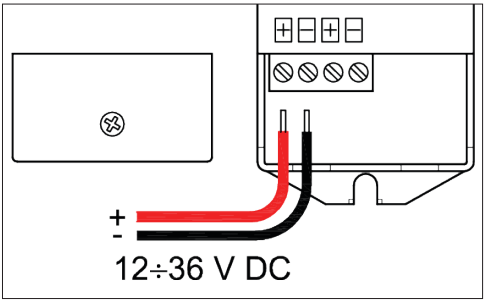


The terminal block can accept wire section between 0.5 and 1.5 mm^2; for the fixing remove about 6-7 mm of insulation from the wires.
Close the cover on the output connectors, passing the cables through the roundings at the edge of the body.

POWER SUPPLY

The choice of power supply for the RGB controller shall be made according to the supply voltage and the total power absorption of all equipments connected to the same group of LED lighting; once obtained this value, you can choose among the wide range of power supply units offered by Arena Luci.
It is advisable to leave a margin of at least 25% lower than the driving capability of the supply unit.
Remove the lid from the input connectors of the RGB controller and connect the input terminals to

the supply line, checking that the power supply output voltage is compatible with the specifications of the controller.
Connect the power supply outputs marked "+V" and "-V" to the power terminals of the controller marked with a "+" and "-", being careful not to reverse the two wires: a wrong polarity can permanently damage the device. For multiple connections it is recommended to use wires with cross-section of at least 4mm^2 or more based on the calculation of voltage drop.



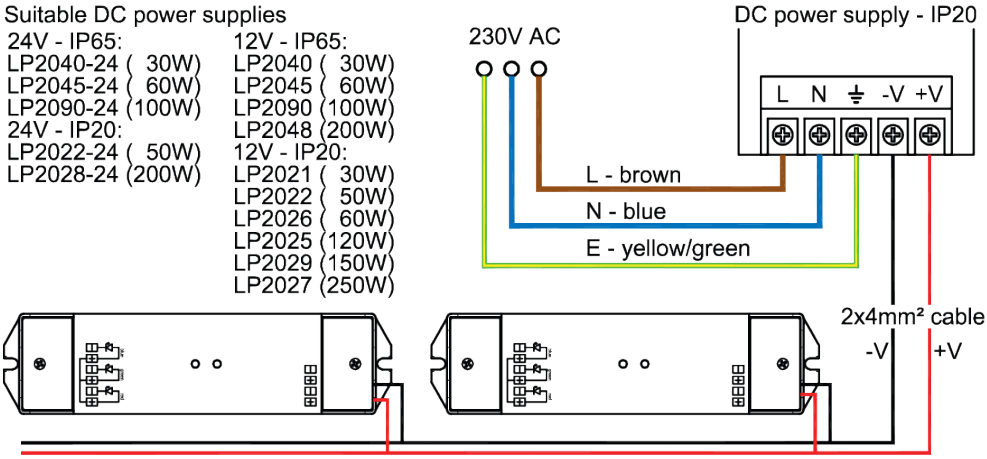
Close the cover on the power supply connectors, passing the cables through the roundings on the edge of the body.
Connect the power supply to the mains outlet, paying attention to the right polarity L-N-E labelled on the wiring terminals (colours brown = L, blue = N, yellow / green = E).
The remote controller LC2810 works with three 1.5V AAA batteries (not included).
The first time you turn on the power supply, the RGB controller will bring the light of the LED devices at maximum power, while the next re-ignitions the RGB controller will bring the light to the state it was when power was removed. However, you can always leave the AC adapter connected to the mains and turn on and off the lights with the remote controller.

REMOTE CONTROLLER LC2810

The remote LC2810 allows you to control up to 4 zones / controllers independently.
Insert the batteries in the rear door, the light indicator will be illuminated. After 15 seconds of inactivity the remote controller automatically goes into standby to save energy, turning off the indicator. The light indicator flashes slowly every second to indicate low batteries and the need to replace them.
To turn on the remote, press the central power button.
Before you can use the remote controller with the RGB controller, it is necessary to associate the same address to both the transmitter and receiver. The address is a numeric code that is uniquely assigned to each RGB controller that allows it to "listen" to the digital data for colour control and perform only the data directed to it and neglect those directed to other receivers.
Connect the power supply to the mains outlet to turn on the RGB controller.
Turn on the remote controller by pressing the central power button.
Press the learn button on the body of the RGB controller and then press and hold one of the zone keys (1 to 4) on the remote controller, the indicator besides the learn button on the receiver will blink four times to indicate the association between transmitter and the controller's receiver.
From this moment the light of one controller / area is controlled by the function keys on the remote controller; since all four areas share the same control buttons, if there are multiple receivers / areas in function press the button area first before you begin your adjustments.
When the receiver gets a correct command addressed to him, the red light besides the learn button lights up.

Basic operation

Turn on the remote by pressing the power button. The power indicator lights up.
Always make sure that the remote controller is not in standby state, otherwise it will not send any commands to the dimmer.
To turn on and off all the lights of the various zones in a moment, you can press the power button on the remote controller: in this mode, it is not necessary to press the zone key before the power button to send its code to the controller.
To turn on and turn off the lights for only one controller / zone, press and hold the corresponding zone key (1 to 4) on the remote controller, and after a few seconds the light will be switched on or off.
To control the lights connected to a particular controller (or several units having all the same identification code), press first the corresponding zone key on the remote before you start making adjustments.
To control in the same way the lights connected to more controller whose were assigned different codes, press in sequence (eg.: 1, 2, 4 or 2, 3, 4) the corresponding zone keys on the remote controller before starting the adjustments.
To set the colour of the light, swipe the tip of the finger on the colour touch wheel until you see the desired colour.
To adjust the brightness, press the corresponding buttons "B+" and "B-": the brightness is adjustable on 8 levels, from minimum to maximum, press the key "B+" once to increase the level of light intensity, press the key "B-" once to decrease the level of light intensity. It is not possible to continuously adjust the brightness if you hold down the buttons.
To adjust the colour saturation, push the "increase" and "decrease" saturation: there are 18 levels of adjustment, from full colour to white. After setting the tone with the colour wheel, press the key "decrease" once to insert the third chromatic



Electrical connection schematic diagram

component and move by one level the colour toward white, press the "increase" key once to remove the third chromatic component and move by one level to the colour toward a more saturated tint. It is not possible to continuously adjust the colour if you hold down the buttons.

Automatic operation

You can program a sequence and store it in the transmitter and then send it to the various activated dimmers.

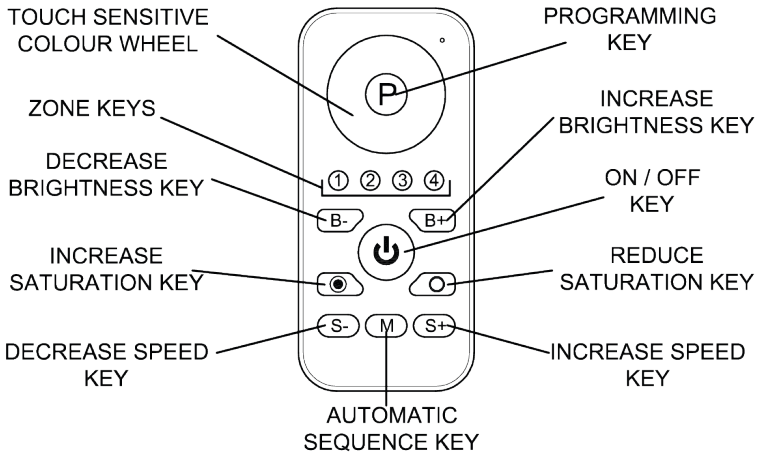
The programmable sequence is only one. When you save a new automatic sequence in the transmitter, the pre-existing sequence is overwritten. It can happen that there is a dimmer that is performing an automatic sequence during the programming of a new sequence: the dimmer will continue to run the old sequence until you send again to that dimmer the command to perform the automatic sequence, and the old sequence will be replaced.

You can program up to 10 steps in the automatic sequence.

These steps can be chosen in two ways: by tapping the colour wheel, matching the colours to be displayed (random effect), or by swiping the finger on the colour wheel to cover a certain angle (rainbow effect, the 10 steps are equally sampled within the range of colours that you have covered with the movement of the finger).

To program the automatic sequence, follow these steps: press the central programming key "P" on the remote controller. Set the colour to be stored as described above, ie touching the colour wheel in correspondence of the colours you want, you can store a maximum of 10 steps, in case of exceed only the last 10 will be stored; or swiping your finger on the wheel, in this case the 10 points will be sampled by the transmitter itself. Press the program button "P" to complete the process and store the sequence.

In order to run the sequence on a single dimmer press the corresponding zone key on the remote



and then the execution key "M".
In order to run the sequence on several dimmers having all the same code, press the corresponding zone key on the remote and then the execution key "M". All the units will start the sequence in contemporary, with the same duration of the steps.
In order to run the sequence on more dimmers to which were assigned different codes, press in sequence (eg.: 1, 2, 4 or 2, 3, 4) the corresponding zone keys on the remote controller and then the execution key "M". All the units will start the sequence, with the same duration of the steps, but with a slight delay between one and the other: in fact, the transmitter sends the control signal to the various dimmers in a sequential manner, first the code 1, then the 2 , 3 and 4, giving rise to the activation delay.
To adjust the brightness during the execution of the sequence press the zone key (from 1 to 4, or whichever you need), and use the buttons "B+" and "B-" as shown above. Each time you press the brightness adjustment buttons the sequence moves to the first step and then restarts.
To adjust the execution speed of the sequence press the corresponding buttons "S+" and "S-": the speed is adjustable on 16 levels, from minimum to maximum, press the key "S+" once to increase the speed by one level, press the key "S-" once to decrease the speed by one level. It is not possible to continuously adjust if you hold down the buttons.
As in the basic operation, you can turn off the lights during the execution of the automatic sequence, both for single dimmer and for groups. Next time you turn the receiver on, the automatic sequence is not picked up, but the lights will go to the last colour displayed before the sequence was launched.

TECHNICAL SPECIFICATIONS

V	Power supply	12 V-36 V DC
A	Current	3x5A max
W	Power	12V: 180W max - 24V: 250W max
CH	Channels	3 outputs for RGB control
	Distance	Receiving range 20 metres (clear field)
	Material	Policarbonate
	Colour	RGB Controller: white - Radiocontroller: black
KG	Weight	RGB Controller: 0.1 kg - Radiocontroller: 0.05 kg (batteries excluded)
SIZE	Dimensions	RGB Controller: 178x46x20 mm - Radiocontroller: 120x55x17 mm
IP	Protection	IP20
	Suitable to be fitted on normally inflammable surfaces	
	Applied standards	RoHS CE

Please note that as part of Arena Luci's ongoing commitment to continuous product development, specifications are subject to change without notice. Whilst every care is taken in the preparation of this manual Arena Luci reserves the right to change specifications in the course of product improvement. The publishers cannot be held responsible for the accuracy of the information herein, or any consequence arising from them.

WARRANTY CONDITIONS
The unit is guaranteed for 24 months from the date of purchase against defects in workmanship or materials that compose it.
This warranty does faults due to incorrect or improper use of the device.
The warranty is immediately void if the unit has been tampered with or opened by unauthorized personnel.
The warranty provides, at the discretion of Arena Luci, repair or replacement of faulty equipment.
The serial number and model of the device are required to obtain information or assistance from the dealer. We invite you to transcribe them in time: for any request of information or services, this will result in a quick and effective operation.

CE RULES
The device meets the essential requirements of the EMC Directive 89/336/EEC, 93/68/EEC, BT73/23/EEC.
The device complies with the standard EN 50419 on the restriction of use of hazardous substances in electrical and electronic equipment (RoHS) and meets the requirements of Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

The European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE), requires that old lighting fixtures must not be disposed in the normal unsorted municipal waste stream. Old appliances must be collected separately in order to optimise the recovery and recycling of the materials they contain and reduce the impact on human health and the environment.The crossed out "wheeled bin" symbol on the product reminds that when you dispose the appliance it must be separately collected. Consumers should contact their local authority or retailer for information concerning the correct disposal of their old appliance.